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TITLE OF THE INVENTION : a way to split oxygen and hydrogen of water with

zero energy input .

2- CIRCUMSTANCES AND DATE OF CONCEPTION : it is an extension to invention

which has the application number 09/886,862 ✓ filing date 11/20/2001 , applicant : hanna

albert awad and have the title : concepts and their applications, pumps, compressors

working on valves and engines working on those compressors.

I have asked to appeal for this previous application.

Drawing : valve 1 open, valve 2 and 3 closed.

Then, valve 2 open, valve 1 and 3 closed.

Then valve 3 open, valve 1 and 2 closed.

Then repeat.

This invention consists of splitting oxygen and hydrogen of water by sucking water in

form of vapor (the pressure above water is so low that the water boils at atmospheric

temperature). Then, the vapor is further sucked (with lower pressure than the first

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cylinder). Then the vapor is compressed with a pressure higher than both cylinders because piston 2 has the largest displacement.

The constant of the spring and its displacement of spring 2 is higher than both spring 1 and spring 3.

The constant of the spring and its displacement of spring 1 is between spring 2 and Spring 3

The sum of the displacements of spring 1 and spring 3 must be less than the displacement of spring 2.

And the sum of the spring constants of spring 1 and 3 must be less than the spring constant of spring 2.

The three cylinders can be repeated (three cylinders linked to another three cylinders, etc..)until we have a pressure at the last cylinder that will liquefy hydrogen (the liquefaction point of hydrogen is different from the liquefaction point of oxygen).

Then we extract hydrogen (by pressure) and use it as a fuel.

### 3- DESCRIPTION OF THE INVENTION :

**PURPOSE :** to split oxygen and hydrogen of water without energy consumption.

**PARTS :** the cylinders , valves , springs and pistons shown in the figures.

**USE :** it is used to back filling the mix of oxygen and hydrogen without energy consumption.

**NOVEL FEATURES :** the system is all new and unknown.

**ADVANTAGES :** with zero energy input we can have hydrogen as a fuel and use oxygen for other purposes.

**3- TESTING RESULTS :** this system is very easy to assemble. And the results came perfect.